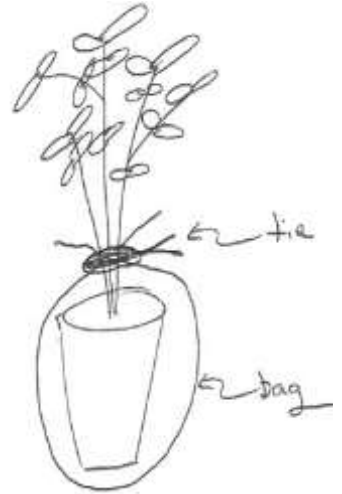


Whole-Plant Method Transpiration Lab

Set-up:

- Tie bag around the base of the plant with string so that only the leaves/stems are exposed.
- Remove any flowers and buds from the plant before massing so flowers and petals won't drop off plant during the lab



Measure using the following treatments:

- Control - normal light conditions in the room.
- Fan - place plants about 1-2 meters away from a fan on low. Leaves should not be rustling as this can cause some plants to close their stomata.
- Light - exposed to a lamp on 24 hrs. a day
- Humidity - mist the inside of another plastic bag & loosely cover plants.

Results & Analysis

Determine the **% change in mass for the time frame**. Everyone must create 1 graph with all groups' control and experimental plant masses averaged & plotted over the timeframe. Calculate standard error & use to construct error bars for each plant group (control, fan, etc.). Use the error bars to make conclusions about how each variable affected the plant transpiration against the control conditions.